

## STIC Biotechnology Systems Branch

### RAW SEQUENCE LISTING

### ERROR REPORT

EFS

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/659,755A  
Source: IFW16  
Date Processed by STIC: 1/17/07

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

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FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

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<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
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U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06



IFW16

## RAW SEQUENCE LISTING

DATE: 01/17/2007

PATENT APPLICATION: US/10/659,755A

TIME: 12:35:18

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Output Set: N:\CRF4\01172007\J659755A.raw

3 <110> APPLICANT: DIXON, RICHARD A.  
 4 LIU, CHANG-JUN  
 5 DEAVOURS, BETTINA  
 7 <120> TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR PRODUCTION OF FLAVONOID  
 8 AND ISOFLAVONOID NUTRACEUTICALS  
 10 <130> FILE REFERENCE: NBLE:007US  
 12 <140> CURRENT APPLICATION NUMBER: 10/659,755A  
 13 <141> CURRENT FILING DATE: 2003-09-10  
 15 <150> PRIOR APPLICATION NUMBER: 60/409,447  
 16 <151> PRIOR FILING DATE: 2002-09-10  
 18 <160> NUMBER OF SEQ ID NOS: 15  
 20 <170> SOFTWARE: PatentIn Ver. 2.1

## ERRORED SEQUENCES

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 924 <212> TYPE: DNA  
 925 <213> ORGANISM: Oryza sativa  
 927 <400> SEQUENCE: 15

**Does Not Comply**  
**Corrected Diskette Needed**

group of 9 nucleotides

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Input Set : N:\efs\01\_17\_07\10659755\_efs\NBLE007US.txt

Output Set: N:\CRF4\01172007\J659755A.raw

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Output Set: N:\CRF4\01172007\J659755A.raw

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## RAW SEQUENCE LISTING

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Input Set : N:\efs\01\_17\_07\10659755\_efs\NBLE007US.txt

Output Set: N:\CRF4\01172007\J659755A.raw

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TIME: 12:35:18

Input Set : N:\efs\01\_17\_07\10659755\_efs\NBLE007US.txt

Output Set: N:\CRF4\01172007\J659755A.raw

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E--> 1100 cacggagtag tgtgtctacg tcgatcgatt taccaccgca gatcgagcaa agagacgac 10320
E--> 1101 gaatcgaaga cgattccaca gtcgatcgcg tagctagcta agctctgcag ccgtcggcac 10380
E--> 1102 caaagactat tccgccatta ctgcctttcc gagattttta gcccacatcg catggggcct 10440
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E--> 1105 atatatataa tcctcgatcc acagctaaat acattgagac atgagacact tactaaacgc 10620
E--> 1106 atcattatcg tcccaagaaa tgacagtaac gcacatataa tttcgattca ttattgctag 10680
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numbers  
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## RAW SEQUENCE LISTING

DATE: 01/17/2007

PATENT APPLICATION: US/10/659,755A

TIME: 12:35:18

Input Set : N:\efs\01\_17\_07\10659755\_efs\NBLE007US.txt

Output Set: N:\CRF4\01172007\J659755A.raw

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E--> 1149 gccttccggt agttcgtaga agccgcccc agccccgcg ctacctggca tggcctcgcc 13260
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numbering  
off



## RAW SEQUENCE LISTING

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Input Set : N:\efs\01\_17\_07\10659755\_efs\NBLE007US.txt

Output Set: N:\CRF4\01172007\J659755A.raw

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numbering  
off



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Input Set : N:\efs\01\_17\_07\10659755\_efs\NBLE007US.txt

Output Set: N:\CRF4\01172007\J659755A.raw

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E--> 1293 tttggttttg ccatcctctt ttttccagcc tgtctgccgt ccatactcta ttttgctgta 21900

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*number  
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## RAW SEQUENCE LISTING

DATE: 01/17/2007

PATENT APPLICATION: US/10/659,755A

TIME: 12:35:18

Input Set : N:\efs\01\_17\_07\10659755\_efs\NBLE007US.txt

Output Set: N:\CRF4\01172007\J659755A.raw

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E--> 1294 ccagccaaga gaagaacttg cacttcggcg ggcgccatgc cttccagatt gactgataga 21960
E--> 1295 aggtagattt ggcagcccca aggaattgta gtcgataggc cgattttgcc gagtactgcc 22020
E--> 1296 catttgctgt gaggttccat cggatgctgt cgtgggtttc tcttagaggc ctcatatctc 22080
E--> 1297 tgatcattct ccagaggcgg atatactgtt ggaggtgatt cgcctcgaag atgcgagaga 22140
E--> 1298 catcaatata tcgtatccac ttgttttctg ctaaggcatc atgcacagtt ctattctttc 22200
E--> 1299 ttctagaggc cacgaaaata tctggggcaa tcaattgcgg tgtttgattg tctagccatt 22260
E--> 1300 ttgagcccca aaagcgtgca attttgccat ctcccaccgt tattgttggt gtggccgcga 22320
E--> 1301 agaggtattt gtctagctga ttgcatggtg gcacagatcc caccgaaggc ttatccggcg 22380
E--> 1302 ccacccattc gttccaaagc catctgagcc tagcttagag ctgatgtgaa atattgcagg 22440
E--> 1303 ttcataacac ctaggccacc caaaactttt ggcctgcaga cccttttcca gttgacttta 22500
E--> 1304 cattttccct ccgagatggt ttgcgcccc gcccgaagga attttcttct tattttgtcc 22560
E--> 1305 aactcctcta gggttccgtc tggtagcttt agtgaagtta ggtggtagat gggctacgcc 22620
E--> 1306 gtgaggactg atttcgttag gcagattcta gcgacggtcg acatcatttt gccttgccaa 22680
E--> 1307 ggagcgagac gcgcttgcca cttgtccatt aagggtgtaa tgtggacctt cttgagcctt 22740
E--> 1308 ccaaccacga ggggtaggcc aaggatattt attgggaagt ttgttaggcc tgctgggaag 22800
E--> 1309 atcccaatga tgctggagag atcaatgcta tcacaccgga taggggcaat ttggcttttg 22860
E--> 1310 ttgaggtttg ttcggaggcc cgtcacttgc ccaaaatcgc ttagaaagct agtgagattt 22920
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E--> 1315 gttgtcgacg aggctaggat gtttgagacc cagttagtcc accgagatgt gaagcctttt 23220
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E--> 1331 catgtgtaaa tgaagcttcc cctgcgaaat caattttttg ctccacgatc ttagtctttt 24180
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E--> 1337 gtatcgccta ttctgaagt caacctcctt gagctcgcaa gcgttgaggg tttctttgaa 24540
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E--> 1340 tctcaggaat gtttgcttgg cactctgttg acagaaaaca cgaggcctgg gagatctgct 24720
E--> 1341 taactccagt gcagggtcaa agctcgcctt caaatgtatg agcgtgccag ttgatttgat 24780
E--> 1342 catgtaatca acaagaaata gagacaaaga attcgtgggt aaatctataa atgatagccg 24840

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numbering  
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## RAW SEQUENCE LISTING

DATE: 01/17/2007

PATENT APPLICATION: US/10/659,755A

TIME: 12:35:18

Input Set : N:\efs\01\_17\_07\10659755\_efs\NBLE007US.txt

Output Set: N:\CRF4\01172007\J659755A.raw

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E--> 1345 atatatagtt cttatattaa taaatactta aatcaagtga ttgggataga tccgtcacca 25020
E--> 1346 tgccgagaca gcataaatca cttagatcga aatatatatt aataacagga ttatatatat 25080
E--> 1347 ttatagcata gccgatcaga tagatctagc atgtatcggc taatactccg atactacttt 25140
E--> 1348 atataaagat atcaaaaacaa atataatata ccaaaacaaa gcttaatata cttaaagtca 25200
E--> 1349 ataagatcct gacataaagg gcggatttaa catgtcattg aagcatatag atcgaatatg 25260
E--> 1350 gttaaatacag ataagatcgg ctgaaactcc gatactaccc taatcggtaa ccagaggaca 25320
E--> 1351 ggctagagat tgatattcta agcacgactt aatagatcaa actcaactga tgcagcatta 25380
E--> 1352 agtatgaaaa gaagaacaat atctagacaa tcaagccgct ggggtgtttca taaagtggta 25440
E--> 1353 gatattcttat ataatttagg acaacgtcgc tatttaacct aatcgggttg cttctattaa 25500
E--> 1354 cagatgttag ccgattgtag gttagatgat gatattgcca aagattatgt aagatatatg 25560
E--> 1355 ataacttgac gaattatata gacaagatta tagtgtcata aagatggaag cactaatctc 25620
E--> 1356 gagaacataa gtcgtcataa caagttttac ctcttggtga agatcgaaac cgatgcagct 25680
E--> 1357 caacccgaaa gcaagaactc gtcgaagcaa aactaaagtg aaaagggtggc gatgcgccga 25740
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E--> 1363 ccagccgatc ctaatcgtag ccgatctgga cttcagccaa ttcttgctct gttctcggat 26100
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E--> 1366 tctgacattc ttttaaggag actgtggccg aaagtgagaa tgttccttgc acaaagtctt 26280
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E--> 1380 ttgctggcgt cgtcgccgca attggctaac attatcgatg ttgtttgggt gcggagtgtg 27120
E--> 1381 ggcaccgaga agggataggt tgattcgcca agttgctgcg aatagcggga gtagcaatgt 27180
E--> 1382 ctggcgggtg cgcgcgtcat aacggtagca cgcgtccgag tctcacgcag atacgaagga 27240
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E--> 1385 ccagagccgg gtccaccgtc ttccgctctt ccttgctaaa gccgaacagc tgcgtgaggg 27420
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E--> 1387 tgtcggtagg gactccttcc gctggaaccg taccaggcgc tagccttgga ctctccgccc 27540
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E--> 1389 gcccttcacc caacatgtca gcagccactg gaattgggaa gacctccagt gcatcatcgg 27660
E--> 1390 gggggatcag cacctgcgtg tctccggcga tgtcgatcag cacctgcggc gtggagagga 27720
E--> 1391 ttgccgaggg aagttctttg aagaggacac gcggcggggg tacctgaacg gagtcgaaat 27780

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numbering  
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## RAW SEQUENCE LISTING

DATE: 01/17/2007

PATENT APPLICATION: US/10/659,755A

TIME: 12:35:18

Input Set : N:\efs\01\_17\_07\10659755\_efs\NBLE007US.txt

Output Set: N:\CRF4\01172007\J659755A.raw

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E--> 1394 tttctgcgga cgtgatcggc agtagctccc ttgtagttga actgatcatc gccagcgtatg 27960
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E--> 1399 ggagcagagg ccccttgctg aacggggggc atgtcagggt agcattccgt gccaaaggacg 28260
E--> 1400 atgccgcaac ggtcggagtg agagagtcgc cgtttccgcg atcattgtca ccgtcttcct 28320
E--> 1401 tatcaccgca gccagccaga tgaagccgtc cgtcgcgcgc ccccatgtcg ccacggtcac 28380
E--> 1402 gggcgcgcg gtagcgcgtg cgttcgcgcg ggaagttaat gtccaggccg cggatgccac 28440
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numbers  
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## RAW SEQUENCE LISTING

DATE: 01/17/2007

PATENT APPLICATION: US/10/659,755A

TIME: 12:35:18

Input Set : N:\efs\01\_17\_07\10659755\_efs\NBLE007US.txt

Output Set: N:\CRF4\01172007\J659755A.raw

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E--> 1481 cctcagggct atccacccat aaaaatcacc tttcatccaa cggttgcacg atcacaatc 33180
E--> 1482 cgcaatagac cttgagaatt aaggcaagtc aacaacccta ccagaggttc ttggaaagtg 33240
E--> 1483 catgataccg tctcttgaag cttttacaca gaaaattttg gtactactga aaccgtcctt 33300
E--> 1484 tttttgaaaa aagtataatt gaaggctgaa aggttcatga agtatgaact gacggtttca 33360
E--> 1485 tagttattac ctctgaattt ggtctgaaac ctcggaactg tattagtcaa 33420
E--> 1486 aactcaccaa agacaaacct gagctagtat gaaagaagtt cagacttcta gaagcagcat 33480
E--> 1487 gttgctgctt tgagaaagac agatatctgt ctaattcagt ttagtaccat tcgctcggtt 33540
E--> 1488 ggtcagaaac gttagtagca gtcagtggaa aaaacattgg tgttatgggt tttccactga 33600
E--> 1489 ccagattagt tggagcgtgt tgttctgaac tttctgcaaa tggacacgaa attgcctgca 33660

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numbers  
off

## RAW SEQUENCE LISTING

DATE: 01/17/2007

PATENT APPLICATION: US/10/659,755A

TIME: 12:35:18

Input Set : N:\efs\01\_17\_07\10659755\_efs\NBLE007US.txt

Output Set: N:\CRF4\01172007\J659755A.raw

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E--> 1490 attggtaggc acggcaagga aatttctctg cacaaggtct ctgtagggtt agttctgaag 33720
E--> 1491 aaacaacgga cttgaatagc tgatatcttg gaagaattgg gtaccatata aaattatcaa 33780
E--> 1492 tcacaacttc tatattgcaa atagtaggac aggaaagaag actgaacaag gagttcatca 33840
E--> 1493 acacggctcg tcttgcaaat gcattttcag gaggccgaac tacgaagaga ctgtttcata 33900
E--> 1494 tttaacaatgt acgtatgatt cacttggttac agcatgccat gcgttgaggat gtacatcaca 33960
E--> 1495 aagcagaact aagacaaaaa attttctctag aagaaaatca ctaaaaaaaa atctgtgtat 34020
E--> 1496 ctgtatacgt gtatcttctc acaatgtcag actcagacac tacactgctt tgtttgatgg 34080
E--> 1497 ccccttttta acctgacctg cataatggat taagcaaatg attattttca gtaaataaat 34140
E--> 1498 tgatcgacta atccatcttt atgatgctga ttaggataag caaacttttt aaggctgtga 34200
E--> 1499 attattcctt tttgcctaaa atattcgggtg cattgcagct tagtaattga ttcctcatcg 34260
E--> 1500 ttctcaccga aagcagaagg caacatgtcg atgtgatata cccagagaga aatgcctgga 34320
E--> 1501 ttattctcga gaatcgcgct ttcggcttgc acgaatctca aggcactcag attatacatg 34380
E--> 1502 atcatggctg attggctgtc actatgccc aatttgattgt tgcaatttca gttttttttt 34440
E--> 1503 tttcaaatga ggcgtgtatc gtgatcgaaa agatttccact tttgaagcga agagagaggg 34500
E--> 1504 gaagggtgct caccgcctcg acgtcgatcc ggtagacgag caggcggcgg cgctcgcggc 34560
E--> 1505 agctgggtgcg gtacgcgacg gcgaggtgcg cggcggcgag cgcaaccgac agcaggagca 34620
E--> 1506 tgggctccgg gcccttcccc tccggtgccg gcgcgacgcc gcggcgcggg agcacggcgg 34680
E--> 1507 cggcggcctt ggccagcacg taggacaccg acccgcgcgc gctcgtcgcc accaccaca 34740
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E--> 1512 cccgcccccg ccgcccgcga ggcgcgcgga gaggagcgcg ggcgggaggg cgaggctcgag 35040
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E--> 1514 gaagaacgcc gtcttggccc acctccacgg ccgcgcccac acctctctcc ctccctcccc 35160
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E--> 1531 tttccccaac agcagctact agaggagagt agagtccaaa cttgggtggc cgggtggaac 36180
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E--> 1534 gcgcggccgg ggtaggaacg ggtggctcgg cgccggccag gtccggtcac cgtcttcctg 36360
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E--> 1536 gtgtacggga accgctaacc gccaatgata attaagtatc aaaattattt aagggtgtgt 36480
E--> 1537 ctattcccac tatccacaaa tataagatgt ttgtaacaca tcctagtaca acgaatctag 36540
E--> 1538 acagcgaatc cgtccaaatt tgttgtacta tgatatata ctttcaacga aaaaaccata 36600

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numbering  
off

## RAW SEQUENCE LISTING

DATE: 01/17/2007

PATENT APPLICATION: US/10/659,755A

TIME: 12:35:18

Input Set : N:\efs\01\_17\_07\10659755\_efs\NBLE007US.txt

Output Set: N:\CRF4\01172007\J659755A.raw

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E--> 1541 tttgcttgaa aaaatcatat taacacatct ttcaattttt ttactaatac ttaattaatc 36780
E--> 1542 atttgttgat gcaccgcttc atttttagatg tatgagggaa gggtttacta gagtatctcc 36840
E--> 1543 ttcaggttct caaatataag atctattttg cttcattagg acaacacttt acaccagaat 36900
E--> 1544 tgttcttcta taatattaaa gcataattgc aaatactttt aaatataagt ataataaaat 36960
E--> 1545 taattttgtg tcaagaatta ttttttccta agagtaaagt ttagttaaac cttccatact 37020
E--> 1546 aatatttttag agcagaggga gtgtataatt tgattgatca agtagttgta gtgttcaata 37080
E--> 1547 tatttcgttc ttaaaagtag ttgtagactt gtagtgttca agtaggctgt tgggtggggac 37140
E--> 1548 cacctccaaa gctgacgaat tgatggaaga aaagaaaaat gaaatactaa tatgcatggt 37200
E--> 1549 gtctttgttc cgcactctgat tgagggtttt aattgatgaa ctcttctagt agatgacgat 37260
E--> 1550 ttgcagttag cagttgcact tggatttggg ttcggatatg tgcattgtca aaatatataa 37320
E--> 1551 ctaaaatgctg ctagtatgtt tcttaggcca gcagttttgg ttggcttcac aagggaagt 37380
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E--> 1554 ctttcacgcc atattggccat ctcggtatag cttcaattcg atgttaatta cacaagcaaa 37560
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E--> 1557 tacagtctac agctataata actagctatc actattaccc gactttgttg tacttacgtg 37740
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E--> 1586 gcagcaacgg ccattgtttg tacgcgcttg cgttcgatcg gcagtgcaag agccaccaag 39480
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numbers  
off



## RAW SEQUENCE LISTING

DATE: 01/17/2007

PATENT APPLICATION: US/10/659,755A

TIME: 12:35:18

Input Set : N:\efs\01\_17\_07\10659755\_efs\NBLE007US.txt

Output Set: N:\CRF4\01172007\J659755A.raw

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E--> 1588 aggcgcagct ccggcagagc taccgcaacg tctggcacac cgacctcacc aacgccatca 39600
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E--> 1590 gatgattttt gggagtcgat ctaattttct ctatcttttt tttccctgca ggctgctgct 39720
E--> 1591 tgtctctgtg gtggtgagtt tgttcatcta ggtttctgaa tctcttcatg gctgcatcga 39780
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E--> 1593 tccagcggac catgtgtgtc ttacatgctg cgcaaacgtg cgctctacaa tgacatgtcg 39900
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E--> 1635 gtacatgatt gtgataagcc ctctgtactaa caatctccac gattcgcagt gtgtgcaggc 42420
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numbering  
off

## RAW SEQUENCE LISTING

DATE: 01/17/2007

PATENT APPLICATION: US/10/659,755A

TIME: 12:35:18

Input Set : N:\efs\01\_17\_07\10659755\_efs\NBLE007US.txt

Output Set: N:\CRF4\01172007\J659755A.raw

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E--> 1637 tgattgattg attggtcaat cccgatgctca ctataaattc cagtgggttgc atgcttttttc 42540
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E--> 1676 ttttttttca ttccgacctg tataaaaaat tgataaccgt cagtctgtgc aggatcagca 44820
E--> 1677 ggattttggc gatcaagcaa gtccgtgatt ccaacaagga tctgctttac agtgatagca 44880
E--> 1678 ggtctccagc cctgagaaga tgcaactgta aataaattcg gtagactgga aataaataag 44940
E--> 1679 actgaagaaa cagcttgaag acttacacta tcctcattaa gaattgagag gcacactgtt 45000
E--> 1680 cctgaaggat agacatttgg gtggaaaaag ccctgtggga acttgcaact ggggtggtttg 45060
E--> 1681 ctaggatagt cctcactgaa gtgaagggtg agagggtagt acccaccctc ccaatcggtc 45120
E--> 1682 tgtacaaatg tagcaataca cacaaataac ataagcaatt atgaactctg gatggaaaga 45180
E--> 1683 aacaggaaaa gcttaaaagc aaccctaat tggcggtcca tgggcagagt gaaaaataca 45240
E--> 1684 ctgtaataa catatatcaa cataaagaag caataagtat atgacaataa tacatttatt 45300
E--> 1685 gaaggaaaat tagtatttgt tagcctacta ggctgggttg tcaagagagt gattgttaca 45360
E--> 1686 taacaataga agttgagcag cagcatgctg aactaataca caagatcacc aggggcgcac 45420

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numbers  
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## RAW SEQUENCE LISTING

DATE: 01/17/2007

PATENT APPLICATION: US/10/659,755A

TIME: 12:35:18

Input Set : N:\efs\01\_17\_07\10659755\_efs\NBLE007US.txt

Output Set: N:\CRF4\01172007\J659755A.raw

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E--> 1687 ccaggcccg gacacctagg ccacaacctg gggcctggcc caactagcaa tggatcccc 45480
E--> 1688 cattgggttac agcttagaaa ttttggtc caaaggtttg gcccgaggcc cgtcaggcta 45540
E--> 1689 gcatctattg cccaatacta tttattgtct aaccctaact tccccctgct accactacaa 45600
E--> 1690 cgctatgcgc tcgtgggaga tgcgccgacg ccgatgcgct cgtccccctg cctccctccc 45660
E--> 1691 tgctcgctcc ctccaaggcc agccgccacc atacgtgagt ctccccgctt ccagccaccc 45720
E--> 1692 accaccctgc ccagccacct cacttccctc cctccgtcca tgtccactgc ctccctcagct 45780
E--> 1693 cctctcgctg gctcggcgcc ccggcaacaa ggctctttct gcacaacccc cctgcacggg 45840
E--> 1694 gcgcctgcgg caagcggcag gtgctcagag tctcagacct ccactctgtc gggcaaggag 45900
E--> 1695 cggacgagga ccttgacagg tgagtttttc ataattctatt tctggtattc ccattttctca 45960
E--> 1696 aatgcctaaa tggcctagat cacctataga tcttctgatt ccattcaatt tgttttaaac 46020
E--> 1697 ttaatagaga tagaagggtga agaggcttag cgatgaaatc tatagatgat tgatggggta 46080
E--> 1698 taaagagaag aataaagatg accagaaaca tttcaaaatt ctccccggaa tcatctaattg 46140
E--> 1699 accagaaaca tttcaaaatt ctccccggaa tcatctattc acttcactaa aaatacaaaa 46200
E--> 1700 tctacagtgt aaatcttgtg caattgagac gggtaaaacc attctaaatg ctttcgggtg 46260
E--> 1701 aaaaaaaatc cgccattttt gttgatgagt atgatggaga tgcattcttc aaagagcaaa 46320
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E--> 1717 cagatcgaaa caggaagagg ggtgggatgg ttcgccgctg gcgcctcggc tagagcagtt 47280
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E--> 1728 taaaagtttt ggtaagcagt atagctttct taccagatt ataattttt ttacacctgc 47940
E--> 1729 attatagtaa tttatatatt tacaatttag aatataaatt tgaagtcaaa aactgaaaag 48000
E--> 1730 ccaaagaatc tcataactat caaaataggt gtttttaaat cttaatccca agtaggcct 48060
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E--> 1734 tattatttta ttattttatt attaataatt tatttttctg tgttgaggag catcaggttc 48300
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numbers  
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## RAW SEQUENCE LISTING

DATE: 01/17/2007

PATENT APPLICATION: US/10/659,755A

TIME: 12:35:18

Input Set : N:\efs\01\_17\_07\10659755\_efs\NBLE007US.txt

Output Set: N:\CRF4\01172007\J659755A.raw

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E--> 1737 aaaaaaaaaat gaagcaggga aattgggtcac tcgtgagtca aatttggctg ctcggcgtgt 48480
E--> 1738 gcatcaagcc tcactttata gagttccttt ttctgactat tgattcatta aatgaataaa 48540
E--> 1739 gagaattgat gttgggtctag aacattcagt ttcaatcctt gcacgaaaaa aagaggaaaa 48600
E--> 1740 gaaaaataaag aagaatctac agttccaaag aaaaagaacg agtacactgc aggggtgtaga 48660
E--> 1741 ctatgacgtg ggccataaatt gtcaacgata ttggggccgag tttggcccac tagaccatc 48720
E--> 1742 cgtttttctc ttgaggagat aaggcccgcg acggttctct ctctcacct cttgctcgag 48780
E--> 1743 ctcgacattg aaccctagag ctccgcatg gatcctcgtc tcgtctccgc ctctccgtcc 48840
E--> 1744 tagggttttc ttccacatca ccacgagcca ctgatgagtc ggatctgcgg cgctgtgcc 48900
E--> 1745 ctacaccacc ttctgtattat gcacttgtga tgtgtccgca ggtggaggag gaaacatcct 48960
E--> 1746 ccataacccg cagtcgcgat acgtttttat ggtgatcgtc ggaggtggtg caggacacgg 49020
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E--> 1750 tttggtcgaa gaaaatattt gatatttttt ttcaaaagca tattcgttaa ttttggtcga 49260
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E--> 1766 ttcatgtcca aaatacactt tatcatttgt tggtaaagct gaggagattg gtaatgcca 50220
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E--> 1783 atccatgcc aagcagtgat caatctctcg catggcttcc ataaatatcc cctccttct 51240
E--> 1784 tccaaaagga tacttactac tccctcctta attccataaa tattacgaat ttttcagttt 51300

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numbers  
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## RAW SEQUENCE LISTING

DATE: 01/17/2007

PATENT APPLICATION: US/10/659,755A

TIME: 12:35:18

Input Set : N:\efs\01\_17\_07\10659755\_efs\NBLE007US.txt

Output Set: N:\CRF4\01172007\J659755A.raw

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E--> 1785 tgaaatttat ctgcggatat aagagatttt agaatagtac tactataagg cggaataaat 51360
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E--> 1787 cacctcataa acaacctaaa actcttcata tttgtatata gaaggagtat tactagaact 51480
E--> 1788 gattataagc cgtaaatata agcttatttag caataaaatt aggtaaaact taattttata 51540
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E--> 1791 gctgaaaagc aaacgatgaa ggtaggttgg cccaacctta gaccttgca taaaaataa 51720
E--> 1792 atctaaaatt ggatgtgact taatctagta taatgaatat ggatagaagg ccaagcagat 51780
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E--> 1800 aaacaaaaaa aaaaggcgag gtgaattagt aaagcctcag tggctccgc tctaatacga 52260
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numbers  
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## RAW SEQUENCE LISTING

DATE: 01/17/2007

PATENT APPLICATION: US/10/659,755A

TIME: 12:35:18

Input Set : N:\efs\01\_17\_07\10659755\_efs\NBLE007US.txt

Output Set: N:\CRF4\01172007\J659755A.raw

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E--> 1834 ctcaccta aa tcaatcacaa ccatatcttt tttttaccta ctttcttata ttaatcaatc 54300
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E--> 1836 tcttggttgg ggacttactc ttttttatca gtattcacca caatcttgtc atcttcgtct 54420
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E--> 1838 ccctctcatc tcaaccaatc acaaccattc ttttcaccta ttttctcttt tcccgtaat 54540
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E--> 1869 ggggctgtaa aactaaaaag gagcacatcc agatacgtgc acacatgatt tcacgtgaaa 56400
E--> 1870 aacatattac cctgcgcctt ccaaagtga aaaggttaat tattttggtg ccatgttggt 56460
E--> 1871 gtacggcatg cataccgcgc ttaagcatga ataggtgagt aggaagatat gtctcatgct 56520
E--> 1872 ctgcaactgac taaatttctt tttacaaaata ttcatattgc tctgtacata caagttcttt 56580
E--> 1873 atatttgaca aaatttatac actgttaagt agttaaaaac tagtttaaga taaatattgt 56640
E--> 1874 taagtttata ccgaacctat ataaaacaat ttcttaaaag gcggtaaagac gatagacctt 56700
E--> 1875 acaaaaagggt gatactacgg gtgggttttag tttcacgcca aaattaaaag ttcgattgaa 56760
E--> 1876 attggaacga tgtgacggaa aggttagaag tttgcgtgag tagaaaagtt cgatgtgact 56820
E--> 1877 tttttgggtt caaactttga atctaaaccg gacctacttc caaaaagcct agataatatg 56880
E--> 1878 catattgtag atttttaata tacagcttac gccctattat attagtttgc gtatcactta 56940
E--> 1879 cgcaaccacac gtgggtgccc ccacaaccac ttaaccatgt aaaatagtac aatatattgc 57000
E--> 1880 tgtctaccat tggatgcacg ctgttcatcg atatagacga ccatcctaac tcatagtgggt 57060
E--> 1881 actaaaatta ttactagaat ataatacaat gagattagaa cgccgctaaa tcgatattga 57120
E--> 1882 aaatgccacg aaccgcacca attatagcag gcccatattt tccggcgagg ttgtctcccc 57180

```

numbers  
off

## RAW SEQUENCE LISTING

DATE: 01/17/2007

PATENT APPLICATION: US/10/659,755A

TIME: 12:35:18

Input Set : N:\efs\01\_17\_07\10659755\_efs\NBLE007US.txt

Output Set: N:\CRF4\01172007\J659755A.raw

```

E--> 1883 ggtcttttgca acctgtgtgg gtcacgtgaa aactgaaagg gagtcctacg tgcgggatcc 57240
E--> 1884 ccacagggga tggcccgat gacgaggcag gcccctgacc gcggctacgt gtcgccatcg 57300
E--> 1885 cagcgggtccg tccgtacacc cgctcgtgag gcccccgac cggctcccaa cctcgtaca 57360
E--> 1886 cgcccggtggg cccacacaaa ccccgggat tggcagaaat cgtcggacca tctgtctgac 57420
E--> 1887 cccacagtgg gacccaccga gctagggccc acctgtcaca gctgctcgtt cccatgctcc 57480
E--> 1888 aagttgggggt ttgggttttt ttctttttgc gaacacttcc cgtttgagaga ttggaggagt 57540
E--> 1889 ggggctgtcg taggcgacgg agacgggatt atggagtact acagtacacg cacagtacat 57600
E--> 1890 ttttctactgt tgctagatgc ggtacaggct acaaagggtga ataactctgt cctctctgcc 57660
E--> 1891 tttggatcca acggtctata tacgttacgt gctatactag ggatggatgg cactgtagca 57720
E--> 1892 atgctggatt aggtcttgcc actcaccact caccagggtg ggtgccgttt tgtttctcga 57780
E--> 1893 ttaggctaca agttaacata agatttatgg gttcaaata agtactagtt tacatcgcat 57840
E--> 1894 ttaacagtga aattatttct caaaacaaaa ttgtagtata tgatttttgg taatgagttt 57900
E--> 1895 gtagcatgga atgatgctgt gttctgattt gcacaagaat ggcatgctga ctatgcatgt 57960
E--> 1896 caagggtcca attgtgatga tttgtacccc ttttttttgt gaaattcaga tagattgcta 58020
E--> 1897 catgctttcc tcttttggtt tctgcatata atcctggttt cttctagagg agttctaatt 58080
E--> 1898 tggttgtccc atgttgtaaa taaaattatg attgtaagta caaatggcta taaaattgat 58140
E--> 1899 acggcattca caatattata ttgagatatt tctttttata taagattagc acacaacttt 58200
E--> 1900 tcattcgagt actgctctca ttgagatggc cagatactat tttctgattg aaaagtccac 58260
E--> 1901 gcccatgcat atggttttaa taaaaggca catgtgtttt cgtgagaatg tgaaatcaaa 58320
E--> 1902 gcatgtcgct attgccatga ttatcctaag atttcacgct cttgcccgca aaaacttta 58380
E--> 1903 cgggctactc acagggaaaa tagttggcag atagccacgc tttaacgtac gattgccata 58440
E--> 1904 tatatgaaaa acaaaacaag ccatacgct agccacttgc ttttgacata tcccactctg 58500
E--> 1905 gtgtctggac aaggatagaa acaaacccca ccaccattca tgggccgttt gatttattta 58560
E--> 1906 tttctagcaa tggtagattc ttttattggg tcggaaaacg gatgtgagcc actcttgagg 58620
E--> 1907 tacatgttaa cacaacttta actagttcat tttagttagg agattagga tttttcgtg 58680
E--> 1908 gtctccgtct cttcgagtat gtgttagggg cacatccacg gttaaatcga gaggttact 58740
E--> 1909 ccatagaatc aataatatgt acattaggac atactccctc cgtcctgcaa taaatgaatc 58800
E--> 1910 tagctaggac tgaatgtgga tgtgacacgt tctacatcca agactagctg gattggtttt 58860
E--> 1911 taatggcgga aggaagtaat aagaacaaaa atgggtaaag cttgaccatc aatctaagca 58920
E--> 1912 taagagcaag tataatagta ggctataagc cggctaaatg ctgagggtgga tgagagaagc 58980
E--> 1913 gggctgtaga cttacagccg gcttgagcat aagaaccaag aaactctgtg agagagacaa 59040
E--> 1914 atgggtccta tattaattgt aaagagctaa ctattatata ggtaggctga gagaaagcta 59100
E--> 1915 caaagaacct tatagccaat aggtcggctg tattattagc cttgctctaa tgcagttgcc 59160
E--> 1916 agaaatgtcc taggcgggaa tacctggggg gcaaattggg gaattctttc ccaccaattg 59220
E--> 1917 gcgcgggtccc tctgatctct ctttcccatc aggcggaggc cagctaagcg gaaagggggc 59280
E--> 1918 acctgggtgg agtggtgggg cggggcctcg cccacttggt cctacgcccc tttccgcgcg 59340
E--> 1919 aggaggtggg acgagagacg acggcgatcc acggccaatg gcgattgccg gtctcggctg 59400
E--> 1920 gtcgcactcg cgctcgcgcg cgggcgcctc gtgggtcgcg ggtttccag gacgggaagt 59460
E--> 1921 cgctcgcgcg gtcgccttct ttatttggt acctctcct cctctccct cccacccat 59520
E--> 1922 ctgcgcctcg tctcgtctcg tctctccact ccccccact ccatccgcta ctgctagtac 59580
E--> 1923 tactactacc cggcctctcg ccttctcgcg cggccgcgat ttccgttcgc aaatccgcac 59640
E--> 1924 ccacggcggc gcgaggtcgc cgctcgtcgc gagccatttc gggtgagagg gggggctctc 59700
E--> 1925 ggtttttctc agatctgtcc acttttgcgc agttttgatc tgggtgattta atatactatt 59760
E--> 1926 tttcacttct ggtggtttgc ggcgacgcgt gtgcaggggg gtagtttata agggcttgcg 59820
E--> 1927 cgaggagggg gaggagtagc gggtagcggc ggctcagtc gagtcgtcgt cgctcgcgcg 59880
E--> 1928 ggcggcggtc gagagagatc gggatcgatg gtgcggggga ggacggagct gaagcggatt 59940
E--> 1929 gagaaccgca cgagccggca ggtgacctc tccaagcgcc ggaatggcct cctcaagaag 60000

```

Number's

OK

These pages  
shown as a sample  
of sequence 15 env



## VERIFICATION SUMMARY

DATE: 01/17/2007

PATENT APPLICATION: US/10/659,755A

TIME: 12:35:19

Input Set : N:\efs\01\_17\_07\10659755\_efs\NBLE007US.txt

Output Set: N:\CRF4\01172007\J659755A.raw

L:415 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:6

L:595 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:8

L:929 M:254 E: No. of Bases conflict, LENGTH:Input:60 Counted:59 SEQ:15

M:254 Repeated in SeqNo=15

L:2693 M:252 E: No. of Seq. differs, &lt;211&gt; LENGTH:Input:105840 Found:105839 SEQ:15

**This application file contains additional errors !****Only the first 1000 errors are shown above !**